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(54) POWER CYLINDER DEVICE FOR POWER STEERING

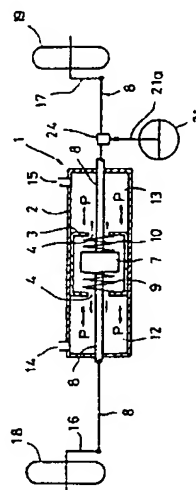
(57) Abstract:

PURPOSE: To improve the neutral position characteristic, i.e., the operation feeling in the vicinity of a neutral point by fitting an outside piston consisting of a hollow body having the pressurized oil flow holes on the both edge surfaces, in slidable ways in a cylinder, and fitting an inside piston inside the outside piston and installing springs between the both pistons.

CONSTITUTION: An outside piston 3 is fitted in slidable ways in the cylinder 2 of a power cylinder device. The outside piston 3 is made hollow, and a pressurized fluid flow hole 4 is drilled on the both edge surfaces, and a spring receiving parts 5 and 6 are formed on the inside of the both edge surfaces. An inside piston 7 is fitted in shiftable ways in the outside piston 3, and the inside piston 7 is fixed into the near intermediate part of a tie rod 8, and springs 9 and 10 are installed between the both edge surfaces 7a and 7b of the inside piston 7 and the spring receiving parts 5 and 6 of the outside piston 3. Further, feed and discharge ports 14

and 15 are formed on the right and left pressurized oil chambers 12 and 13 divided by the inside and outside piston 7 and 3 in the cylinder 2, and pressurized oil is supplied and discharged through a control valve.

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